WHAT IS CLAIMED IS:

1	1. A reflective pavement marker comprising:
2	a shell having at least one side wall having a reflective portion, wherein
3	said shell forms an interior cavity, said reflective portion having an inner
4	surface partially defining said cavity, said shell formed of a polymer selected
5	from the group consisting of polyacrylate and polycarbonate, said polymer
6	having a tensile strength of greater than 9,000 pounds per square inch and a
7	ratio of tensile strength to flexural modulus of between 0.021-0.050:1;
8	a reflective coating covering said inner surface of said reflective
9	portion;
10	a bonding coating covering at least said reflective coating; and
11	a filler material disposed within the interior cavity of said shell.
1	2. A reflective pavement marker as set forth in claim 1 wherein the
2	tensile strength of said polymer is greater than 10,000 pounds per square inch.
1	3. A reflective pavement marker as set forth in claim 1 wherein
2	said polymer has an optical transmittance greater than 85%.
1	4. A reflective pavement marker as set forth in claim 1 wherein
2	said polymer is a polyacrylate.

1	5. A reflective pavement marker as set forth in claim 4 wherein
2	said polymer comprises methyl methacrylate.
1	6. A reflective pavement marker as set forth in claim 4 wherein
2	said polymer is a poly(ethyl acrylate/methyl methacrylate).
1	7. A reflective pavement marker as set forth in claim 1 wherein
2	said shell includes a top wall, side wall and reflective end wall with reflective
3	portion that are integral and formed as one piece.
1	8. A reflective pavement marker as set forth in claim 1 wherein
2	said reflective portion includes a plurality of integrally formed cube-shaped
3	members arranged in a grid pattern.
1	9. A reflective pavement marker as set forth in claim 1 wherein
2	said reflective coating is a metal material.
1	10. A reflective pavement marker as set forth in claim 1 wherein
2	said bonding coating is a bonding primer.
1	11. A reflective pavement marker as set forth in claim 10 wherein
2	said bonding primer is an acrylic latex primer.

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2	said bonding primer is a water based primer.
1	13. A reflective pavement marker comprising:
2	a shell having at least one side wall having a reflective portion, wherein
3	said shell defines an interior cavity, and said reflective portion and said shell
4	are integral and formed as one piece, said shell formed of a polymer selected
5	from the group consisting of polyacrylate and polycarbonate, said polymer
6	having a tensile strength of greater than 9,000 pounds per square inch and a
7	ratio of tensile strength to flexural modulus of between 0.026-0.050:1;
8	wherein said reflective portion includes a plurality of integrally formed
9	cube-shaped members arranged in a grid pattern on an inner surface;
10	a reflective coating covering said inner surface of said reflective portion,
11	wherein said reflective coating is a metal material;
12	a bonding coating covering said reflective coating to prevent separation
13	of said reflective coating from said reflective portion, wherein said bonding
14	coating is a bonding primer; and
15	a filler material disposed within said cavity of said shell.
1	14. A reflective pavement marker as set forth in claim 13 wherein
2	the tensile strength of said polymer is greater than 10,000 pounds per square
3	inch.

A reflective pavement marker as set forth in claim 10 wherein

1	15. A reflective pavement marker as set forth in claim 13 wherein
2	said polymer has an optical transmittance greater than 85%.
1	16. A reflective pavement marker as set forth in claim 13 wherein
2	said polymer is a polyacrylate.
1	17. A reflective pavement marker as set forth in claim 16 wherein
2	said polymer comprises methyl methacrylate.
1	18. A reflective pavement marker as set forth in claim 16 wherein
2	said polymer is a poly(ethyl acrylate/methyl methacrylate).
1	19. A reflective pavement marker as set forth in claim 13 wherein
2	said bonding primer is an acrylic latex primer.
1	20. A method of forming a reflective pavement marker, said method
2	comprising the steps of:
3	forming a shell having at least one reflective portion with an inner
4	surface wherein the shell forms an interior cavity, said shell formed of a
5	polymer selected from the group consisting of polyacrylate and polycarbonate,
6	said polymer having a tensile strength of greater than 9,000 pounds per square
7	inch and a ratio of tensile strength to flexural modulus of between 0.021-
8	0.050:1;

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10	covering at least said metal material with a bonding compound; and
11	filling the cavity of the shell with a filler material.
1	21. A reflective pavement marker as set forth in claim 20 wherein
2	the tensile strength of said polymer is greater than 10,000 pounds per square
3	inch.
1	22. A reflective pavement marker as set forth in claim 20 wherein
2	said polymer has an optical transmittance greater than 85%.
1	23. A reflective pavement marker as set forth in claim 20 wherein
2	said polymer is a polyacrylate.
1	24. A reflective pavement marker as set forth in claim 20 wherein
2	said polymer comprises methyl methacrylate.
1	25. A reflective pavement marker as set forth in claim 20 wherein
2	said polymer is a poly(ethyl acrylate/methyl methacrylate).

coating said inner surface with a metal material;